

Preliminary Amendment
Based on PCT/JP2003/009903

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A fluorine-containing urethane compound of the general formula:

$$[\text{Rf}-\text{A}^1-(\text{X}^1(\text{OH}))-(\text{Y}^1)_a-\text{OC}(=\text{O})\text{NH}-]_m \text{I} [-\text{NHC}(=\text{O})\text{O}-\text{Y}^2]_n [-\text{NHC}(=\text{O})\text{O}-((\text{ClCH}_2-)\text{X}^2\text{O})_b-\text{R}^1]_k$$

(1)

wherein I is a group remaining after an isocyanate group is removed from a polyisocyanate compound,

Rf is a perfluoroalkyl group having 2 to 21 carbon atoms,

A¹ is a direct bond or a divalent organic group having 1 to 21 carbon atoms,

X¹ and X² are trivalent linear or branched aliphatic group having 2 to 5 carbon atoms,

Y¹ is a divalent organic group having 0 to 5 carbon atoms and 0 to 2 nitrogen atoms (provided that at least one carbon atom or nitrogen atom is present) and at least one hydrogen atom,

Y² is a monovalent organic group optionally having a hydroxyl group,

R¹ is a hydrogen atom or an alkyl group having 1 to 10 carbon atoms,

a is the number of 0 or 1,

b is the number of 1 to 20,

m is the number of 1 to 15,

n and k are the number of 0 to 14, and

the total of m, n and k is the number of 2 to 15.

2. (original): The fluorine-containing urethane compound according to claim 1, wherein the polyisocyanate compound constituting the I group is an aliphatic polyisocyanate, an aromatic polyisocyanate, or a derivative of these polyisocyanates.

3. (original): The fluorine-containing urethane compound according to claim 1, wherein the polyisocyanate compound constituting the I group is a diisocyanate, a polymeric diphenylmethane diisocyanate, or a modified isocyanate.

4. (original): The compound according to claim 1, wherein the A¹ group is of the formula:

-(CH₂)_p-

-CONR¹¹-R¹²-

-CH₂C(OH)HCH₂-

-CH₂C(OCOR¹³)HCH₂- or

-O-Ar-CH₂-

wherein R¹¹ is hydrogen or an alkyl group having 1 to 10 carbon atoms,

R¹² is an alkylene group having 1 to 10 carbon atoms,

R¹³ is hydrogen or a methyl group,

Ar is an arylene group (having, for example, 6 to 20 carbon atoms) optionally having a substituent, and

p is the number of 1 to 10.

5. (original): A fluorine-containing urethane compound of the general formula:
[Rf-A¹-(X¹(OD¹))-(Y¹)_a-OC(=O)NH-]_m I [-NHC(=O)O-Y²]_n [-NHC(=O)O-
((ClCH₂-)X²O)_b-R¹]_k

(2)

wherein I is a group remaining after an isocyanate group is removed from a polyisocyanate compound,

Rf is a perfluoroalkyl group having 2 to 21 carbon atoms,

A¹ is a direct bond or a divalent organic group having 1 to 21 carbon atoms,

X¹ and X² are trivalent linear or branched aliphatic group having 2 to 5 carbon atoms,

D¹ is a residue resulting from the reaction between an active hydrogen-reactive compound and active hydrogen of a hydroxyl group,

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Y^1 is a divalent organic group having 0 to 5 carbon atoms and 0 to 2 nitrogen atoms (provided that at least one carbon atom or nitrogen atom is present) and at least one hydrogen atom,

Y^2 is a monovalent organic group optionally having a hydroxyl group,

R^1 is a hydrogen atom or an alkyl group having 1 to 10 carbon atoms,

a is the number of 0 or 1,

b is the number of 1 to 20,

m is the number of 1 to 15,

n and k are the number of 0 to 14, and

the total of m, n and k is the number of 2 to 15.

6. (currently amended): A composition comprising the fluorine-containing urethane compound according to claim 1 ~~or 5~~, an emulsifying agent and water.

7. (original): A treatment agent comprising the composition according to claim 6.

8. (original): A method of treating a textile with the treatment agent according to claim 7.

9. (new): A composition comprising the fluorine-containing urethane compound according to claim 5, an emulsifying agent and water.

10. (new): A treatment agent comprising the composition according to claim 9.

11. (new): A method of treating a textile with the treatment agent according to claim 10.